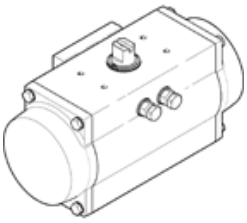
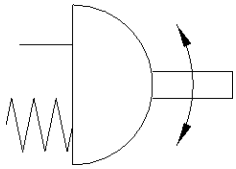
Semi-rotary actuator
DFPD-80-RP-90-RS30-F0507

Part number: 8047625





General operating conditions

Support Portal

Datasheet product reliability

The information in this "Product reliability data sheet" is based on products being used as intended. This includes complying with all specifications in data sheets, catalogues, user documentation and the general operating conditions. The user alone is responsible for determining whether a product is suitable for a particular application.

Feature	Value
CE mark (see declaration of conformity)	To EU ATEX Directive
Safety function[1)]	The safety function is to switch the actuator to the defined safety switching position whe n the compressed air is switched off and the spring chamber is exhausted. This switching m ovement is achieved through the spring force of the spring assembly.
Safety Integrity Level (SIL)[2)]	Up to Safety Integrity Level 1 High Demand mode Up to Safety Integrity Level 2 Low Demand mode Up to SIL 3 in a redundant architecture
Certified for safety function to ISO 13849 and IEC 61508 (SIL)[3)]	Up to Safety Integrity Level 1 high demand mode Up to Safety Integrity Level 2 low demand mode Up to SIL 3 in a redundant architecture
Certificate issuing authority	DNV TAP00001CE TÜV Rheinland 968/V 1106.01/2023
Probability of Failure per Hour (PFH)[4)]	$1.01*10^{-7}$
Probability of Failure on Demand (PFD)[5)]	$7.8*10^{-4}$
Mean time to dangerous failure ($MTTF_d$)[6)]	1126 years

1) Further measures can be necessary for realization of the mentioned safety function. For these measures refer to the relevant documentation.
2) Further measures can be necessary to fulfil the stated Safety Integrity Level (SIL). For these measures refer to the relevant documentation.
3) Further measures can be necessary to fulfil the stated Safety Integrity Level (SIL). For these measures refer to the relevant documentation.
4) For components affected by wear this value will be reached, if for the precise application the mean number of annual operations (nop) is equal or lower than the assumed annual operations of this product. The assumed mean number of annual operations is stated in this datasheet.
5) For components affected by wear this value will be reached, if for the precise application the mean number of annual operations (nop) is equal or lower than the assumed annual operations of this product. The assumed mean number of annual operations is stated in this datasheet.
6) The ascertainment of the $MTTF_d$ value is generally based on the IEC 61709 "Electric components - Reliability - Reference conditions for failure rates and stress models for conversion" respectively on the SN 29500.